1.0 OPENING SESSION - Tuesday, January 23, 2018

1.1 The opening session of the main committee meeting was called to order by the Chair at 1:02 PM. The sign-in sheet and roster were passed around. The API anti-trust policy was presented.

1.2 The Chair invited everyone in the room to introduce themselves.

1.3 The Chair called the names of the voting members and asked the voting members or those designated as proxies to stand. There were a total of 25 voting members and proxies in attendance (out of a total of 28 possible), establishing a quorum.

1.4 The minutes of the 2017 meeting in Austin were approved, seconded, and passed by unanimous vote.

1.5 The agenda for the annual meeting was presented. An adjustment to subcommittee and task group meeting schedules was presented to accommodate subcommittee chair conflicts. After discussion, a motion was made to approve the agenda as amended. The motion was seconded and the revised agenda was unanimously approved.

1.6 API staff presented the annual update – see Attachment A. The function of the Interpretations Task Group (ITG) was presented. Interpretation requests for both the Twentieth and Twenty-First Editions of the standard are currently being addressed and compiled.

Changes in committee voting membership were presented. Five (5) new voting members representing the Pipeline Contractors Association, Pipe Manufacturers, and American Welding Society (AWS) were highlighted.
The new officers of the API 1104 committee were presented. API staff explained that the chair and vice chair must be voting members; the secretary position is open to voting or non-voting members. The term limits were described.

The timeline for the development of the next edition (Twenty-second) was reviewed. The presented timeline indicated dates for editing, balloting, and comment resolution to meet the publication deadline of December 2018, when the next action on the document is required.

1.7 The Chair asked first time attendees to the meeting to raise their hands. Approximately 22 first time attendees were present. The Chair thanked them for their attendance and emphasized the importance of active participation.

1.8 Yong-Yi Wang and Bill Bruce gave a joint presentation on girth weld strength matching and heat affected zone (HAZ) softening — see Attachment B.

A brief discussion occurred regarding the contribution of construction stresses to failures at locations of HAZ softening. Additionally, the ability of mechanized welding to reduce the risk of HAZ softening was discussed; participants were reminded that mechanized welding cannot be used for all welds, especially at tie-in locations.

1.9 The Chair presented the subcommittee and task group co-chairs for review. It was highlighted that Bill Amend recently was appointed co-chair of the Welding Procedures and Welder Qualification subcommittee.

Participants were asked to volunteer if interested in replacing Alan Beckett as the co-chair of the Task Group on NDT for Repair and In-service Welds. Chuck Woodruff volunteered to co-chair this task group.

1.10 Melissa Gould briefly discussed the development of the Twenty-Second Edition. The proposed changes must be submitted to the Editorial Task Group shortly after the conclusion of the annual meeting to meet the aggressive schedule presented by API Staff.

It was emphasized that the subcommittee/task group reports scheduled for Thursday, January 25, should cover the broad changes proposed for the Twenty-Second Edition. Due to time constraints, all changes could not be presented for a voice-vote prior to balloting.

1.11 The Chair asked that any old business be discussed. No old business was raised.

1.12 A motion to adjourn the opening session was made, seconded, and passed by unanimous vote at 3:03 PM.
2.0 CLOSING SESSION – Thursday, January 25, 2018

2.1 The closing session of the main committee meeting was called to order by the Chair at 1:11 PM. The sign-in sheet and roster were passed around.

2.2 The past Chair, Tim Burns, was presented with an award of recognition by API Staff. Gratitude for his years of service as Chair, where he oversaw the publication of the Twenty-First Edition of API 1104 and two (2) revisions of the API 1104 by-laws, were expressed.

2.3 The Chair invited everyone in the room to introduce themselves.

2.4 The Chair asked all voting members or those designated as proxies to raise their hands. There were a total of 23 voting members and proxies in attendance, establishing a quorum.

2.5 Ken Lee from the US Department of Transportation (DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA) presented the DOT PHMSA report – see Attachment C. The new Administrator and Deputy Administrator were presented, as well as the redesigned DOT PHMSA website.

It was highlighted than Appendix B is now incorporated by reference in the Code of Federal Regulations (CFR Parts 192 and 195). An error was noted in the preamble language of the notice issued in January 2017. A rulemaking updated was also briefly presented.

A participant inquired whether the 2-for-1 regulatory reform is specific to a given topic. Ken Lee explained that the rule is department-wide, so any two (2) DOT regulations could be removed to enact a new regulation.

A participant inquired whether the Twenty-First Edition will be incorporated by reference. Ken Lee stated that DOT PHMSA proposed to adopt the Twenty-First Edition, but the status and timeline is unclear.

2.6 The Chair invited report-out presentations from each of the subcommittees and task groups.

Fracture Mechanics Subcommittee – Yong-Yi Wang – see Attachment D. The subcommittee reviewed both substantive and clarification changes proposed for the Twenty-second Edition. Also, the two (2) task groups reporting to the subcommittee presented a status report, including the proposed paths forward (see below).
Annex A Task Group on SBECA – Doug Fairchild – The task group on engineering critical analysis (ECA) for strain-based design pipelines met in December 2017, prior to the annual meeting. The work will proceed in early 2018, however, the information will be presented as a new recommended practice (RP) for API, as opposed to an annex to API 1104.

Annex A Task Group on Installation ECA – Tom Jarvie – see Attachment E. The task group met in June 2017, prior to the annual meeting. General guidelines are being developed for inclusion as a new annex in API 1104. Additionally, a multi-year effort to create more detailed guidance on ECA for reeled pipeline installation will be provided to API upon completion for the development of a new RP.

General Interest Subcommittee – Bill Bruce – see Attachment F. To avoid confusion with the General Interest voting group, the subcommittee decided to revise the name to the “Production Welding and General Interest Subcommittee.” The subcommittee spent most of the meeting reviewing proposed changes to Sections 2, 3, 4, and 7 for the Twenty-Second Edition. The subcommittee will propose removing Section 13 in the Twenty-Second Edition.

In-service Welding Subcommittee – Matt Boring – see Attachment G. The subcommittee reviewed the recent interpretation to Annex B as well as the proposed changes to the Twenty-Second Edition. The discussions included changes to the scope of the annex, in-service welder qualification, destructive test requirements for longitudinal seam welders, and inspection and repair of in-service welds.

Mechanized Welding Subcommittee – Bob Huntley and Olivier Jouffron – see Attachment H. The subcommittee reviewed suggestions for changes in the Twenty-Second Edition, including revisions to the sections on procedure qualification, welding procedure specification, and essential variables.

Welding Procedures and Welder Qualification Subcommittee – Robert Lazor and Luke Ludwig – see Attachment I. Example changes to Section 6 on welder qualification were presented to the main committee. Subsequently, a high-level summary of the changes to the essential variables for procedure qualification in Section 5 were presented and discussed. An informational document for committee use which explains the changes and related subcommittee discussions was developed. Any participants who would like to read this informational document were asked to contact the subcommittee co-chairs.

2.7 At 2:54 PM, the attendees took a brief break and resumed the meeting at 3:15 PM. The Chair asked voting members and designated proxies to raise their hands; a quorum was re-established.
Nondestructive Testing (NDT) Subcommittee – Dave Culbertson – see Attachment J. An addendum to both the Twentieth and Twenty-First Editions was presented to modify Section 11.1.6, Placement of IQIs, for repaired welds. A motion to approve a separate letter ballot for this revision was made, seconded, and passed by unanimous vote.

Repair Welding Subcommittee – Brad Etheridge – see Attachment K. An overview of the changes to the Twenty-Second Edition proposed by the work group and approved by the subcommittee were presented. Section 10 continues to refer to Section 5 for certain essential variables, so the subcommittee co-chairs will continue to closely follow the developments of the Welding Procedures and Welder Qualification subcommittee. An informational document for committee use which explains the changes and related subcommittee discussions was developed to assist during the balloting process. Any participants who would like to read this informational document were asked to contact the subcommittee co-chairs.

Automatic UT Task Group – Chuck Woodruff and Bob Bates – see Attachment L. The extensive work performed by the AUT task group between 2012 and 2017 was reviewed. Changes to Section 11.4 were proposed and passed by the NDE subcommittee in May 2017. The changes will be included in the ballot for the Twenty-Second Edition of API 1104.

Radiographic Testing Task Group – Dave Culbertson – see Attachment M. The task group met twice during the annual meeting to consider and approve proposed revisions for the Twenty-Second Edition. Additionally, the RT task group proposed a modification to Section 11.1.6.1 to the NDT subcommittee, which was previously presented to the main committee for approval to send to letter ballot.

Task Group on NDT for Repair and In-Service Welds – Matt Boring – see Attachment N. A summary of the task group was presented, including the review of results of the action items from the 2017 API 1104 meeting in Austin, Texas, as well as the division of the task group into two working groups focused on construction repair and in-service weld repair, respectively.

Task Group for Table 1 – Jon Lee – see Attachment O. The task group has worked closely with the Welding Procedures and Welder Qualification subcommittee and the Mechanized Welding subcommittee. Changes were presented which will be proposed to Section 5 and 12 for inclusion in the Twenty-Second Edition.

Interpretations Task Group – Mike Childers – see Attachment P. The four (4) interpretation requests completed on the first day of the meeting were briefly presented. A motion to accept the interpretations was made, seconded, and passed by unanimous vote.
**API 1104/5L Joint Work Group** – Tim Burns briefly presented on the joint working group between the API 1104 and API 5L committees, including his plan to request that API 5L consider limiting the maximum allowable ultimate tensile strength (UTS) for each grade.

2.8 At 4:18 PM, the Chair requested that API Staff present the timeline for the publication of the Twenty-Second Edition again. It was explained that the first ballot will be “clean” with no tracked changes. The Twenty-Second Edition will also not be released as a red-line version due to the extent of the proposed changes.

An explanation was provided to participants on how to revise figures or request figure revisions from API. Any figures tied to requirements in the document should be updated prior to the first ballot.

Subcommittees were requested to provide their proposed revisions to the Editorial Task Group by February 15, 2018 (Action Item 2018-1).

2.9 At 4:46 PM, the Chair moved on to the new business portion of the agenda.

Participants were asked to indicate if they are interested in being added to the distribution list for the fatigue equations group associated with API 5L1, Railroad Transportation of Line Pipe. Interested participants should identify themselves to the Chair.

Participants were asked to indicate whether they currently have or are considering implementation of a policy to prohibit the use of half-mask or “pancake” welder face shields. Participants with information should contact Bill Byrd.

2.10 The Chair stated the next winter meeting of the committee will be January 22-24, 2019 in San Antonio, Texas. It was stated that the subcommittee and task group chairs will be contacted in September regarding room selection and setup as well as the proposed agenda.

2.11 A motion to adjourn was made, seconded, and passed by unanimous vote at 4:51 PM. The meeting was adjourned.

3.0 2018 ACTION ITEMS
Action Item 2018-1 – Subcommittee co-chairs to provide revisions to the Editorial Task Group for inclusion in the ballot by February 15, 2018.

4.0 ATTACHMENTS
B. Presentation – Girth Weld Strength Matching and Heat Affected Zone Softening – Bill Bruce and Yong-Yi Wang
C. Presentation – DOT PHMSA Report – Ken Lee
D. Subcommittee report – Fracture Mechanics – Yong-Yi Wang
E. Task group report – Annex A Task Group on Installation ECA – Tom Jarvie
F. Subcommittee report – General Interest – Bill Bruce
G. Subcommittee report – In-service Welding – Matt Boring
H. Subcommittee report – Mechanized Welding – Bob Huntley and Olivier Jouffron
J. Subcommittee report – Nondestructive Testing – Dave Culbertson
K. Subcommittee report – Repair Welding – Brad Etheridge
L. Task group report – Automatic UT Task Group – Chuck Woodruff and Bob Bates
M. Task group report – Radiographic Testing Task Group – Dave Culbertson
N. Task group report – Task Group on NDT for Repair and In-Service Welds – Matt Boring
O. Task group report – Task Group for Table 1 – Jon Lee
P. Task group report – Interpretations – Mike Childers

Respectfully submitted,
Melissa Gould
Secretary
API-AGA Joint Committee on Oil and Gas Pipeline Field Welding Practices